

Amendments to the Specification

Please amend Paragraph [0040] of the published application as follows:

[0040] The primary catheter 8 is preferably a cylindrical catheter made of biocompatible material that is divided internally into two lumens 18 and 19. The insertion (also called ~~distal~~) "distal") end 8A of the catheter has openings to each lumen located near its tip. In the preferred embodiment, the catheter is fabricated from a biocompatible plastic and has a diameter of 5 mm. At the external end (also called the "proximal" end") 8B of the catheter, each lumen is connected separately to tubing. In one embodiment, a sensor package 21 is incorporated into the wall of the catheter such that the sensor package 21 can measure the pressure and temperature of the surrounding tissues. In another embodiment, a sensor package 21A can be separate from the catheter and inserted into the body cavity in a different location. In the preferred embodiment, the pressure-sensitive portion of the sensor package is a miniature 4-wire strain gauge 171 containing a sealed 1 atm pressure reference and connected to an electronic data display and data storage external to the patient. In the preferred embodiment, the temperature-sensing portion of the sensor package is a fine T-type thermocouple wire connected 172, 173 connected to electronic thermocouple display and data and storage external to the patient. The data display and storage are shown schematically as monitor 142 and computer 141. Wires 150 are shown as connecting sensor package 21 to the computer 141, and wires 151 are shown as connecting sensor package 21A to the computer to transfer data from the strain gauge and the thermocouple. However, the data can be relayed by wireless links, as indicated by ~~antenna 142~~ antenna 143 on the computer, if preferred.

Please amend Paragraph [0043] of the published application as follows:

[0043] The temperature of liquid in the conditioning chamber is monitored by a thermocouple 105. The temperature sensed is communicated to computer 141 by wireless communication (as shown diagrammatically by antenna 107, which communicates with ~~antenna 142~~, antenna 143, or by wires (not shown).